

Morphometry Analysis Report

Analysis Information

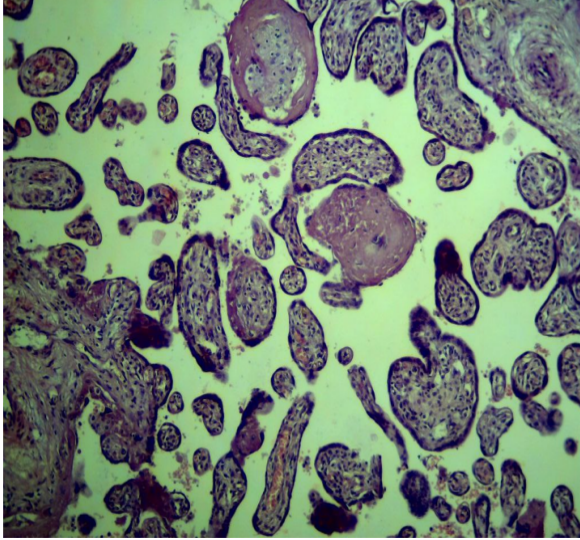
| | |
|---------------------|---|
| Sample ID: | N/A |
| Image File: | 2025-12-26 00.02.58.jpg |
| Analysis Date: | 2025-12-26 00:04:08 |
| Total Cells: | 84 |
| Pixel Size: | 1.0 μ m |
| Segmentation Model: | cyto3 |
| Preprocessing: | brightfield_pipeline, clahe(clip=2.0), bilateral(d=5) |

Summary Statistics

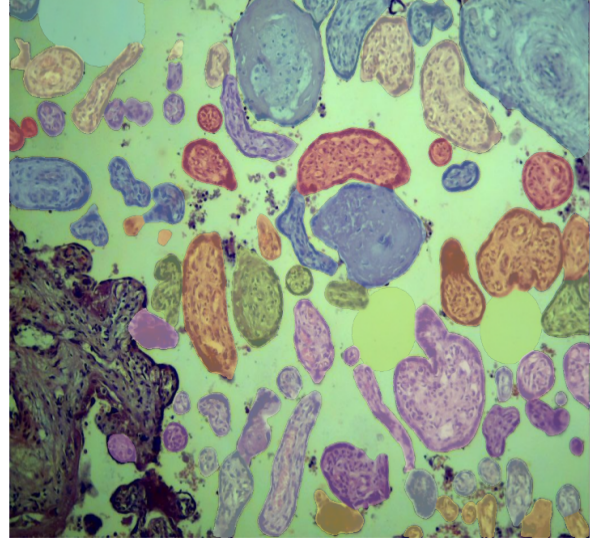
| Metric | Mean | Std | Min | Max | Median |
|-------------------------|---------|---------|--------|----------|---------|
| Area (px ²) | 4951.02 | 6195.47 | 329.00 | 37784.00 | 2596.50 |
| Perimeter (px) | 256.03 | 155.74 | 65.11 | 830.40 | 208.70 |
| Circularity | 0.77 | 0.14 | 0.31 | 0.98 | 0.78 |
| Eccentricity | 0.70 | 0.17 | 0.29 | 0.99 | 0.72 |
| Solidity | 0.94 | 0.06 | 0.70 | 0.99 | 0.96 |
| Aspect Ratio | 1.65 | 0.72 | 1.05 | 5.97 | 1.45 |

Segmentation Results

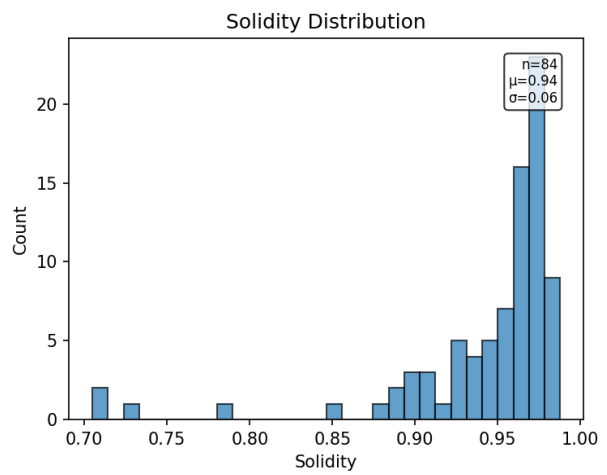
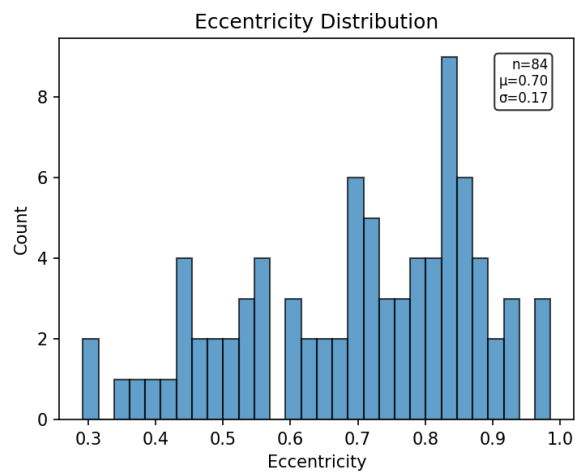
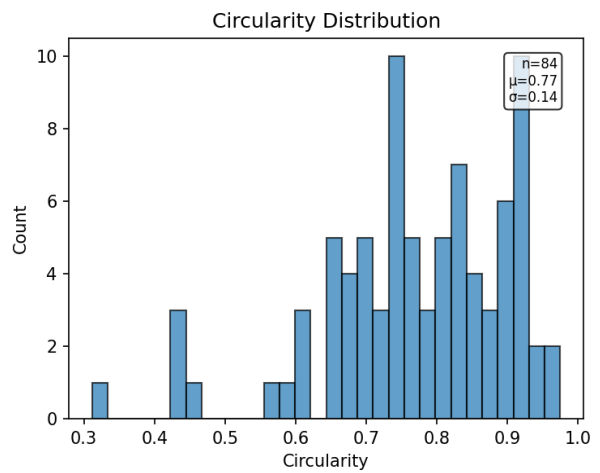
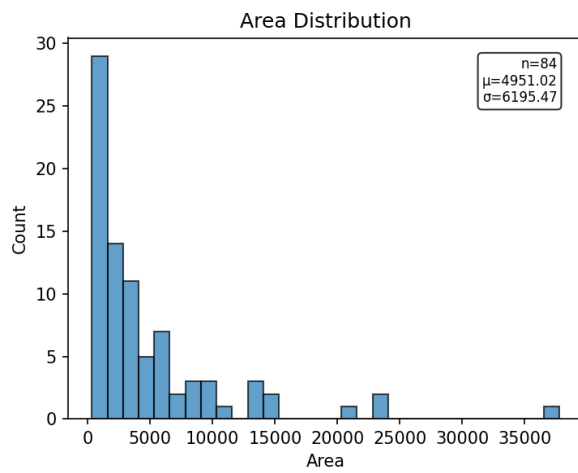
Original Image



Segmentation (84 cells)



Distribution Analysis



Individual Cell Measurements

| cell_id | area | perimeter | circularity | eccentricity | solidity |
|---------|-----------|-----------|-------------|--------------|----------|
| 1.000 | 1586.000 | 162.083 | 0.759 | 0.790 | 0.973 |
| 2.000 | 14022.000 | 521.540 | 0.648 | 0.871 | 0.939 |
| 3.000 | 23914.000 | 585.144 | 0.878 | 0.557 | 0.987 |
| 4.000 | 1431.000 | 163.095 | 0.676 | 0.699 | 0.943 |
| 5.000 | 7703.000 | 399.055 | 0.608 | 0.818 | 0.881 |
| 6.000 | 37784.000 | 830.399 | 0.689 | 0.722 | 0.970 |
| 7.000 | 3670.000 | 262.007 | 0.672 | 0.723 | 0.897 |
| 8.000 | 8453.000 | 361.907 | 0.811 | 0.528 | 0.957 |
| 9.000 | 1049.000 | 152.468 | 0.567 | 0.745 | 0.789 |
| 10.000 | 502.000 | 95.255 | 0.695 | 0.848 | 0.924 |
| 11.000 | 13550.000 | 502.316 | 0.675 | 0.835 | 0.925 |
| 12.000 | 5465.000 | 399.772 | 0.430 | 0.970 | 0.855 |
| 13.000 | 2171.000 | 181.782 | 0.826 | 0.778 | 0.966 |
| 14.000 | 6121.000 | 301.078 | 0.849 | 0.762 | 0.984 |
| 15.000 | 1021.000 | 125.012 | 0.821 | 0.777 | 0.960 |
| 16.000 | 6516.000 | 435.404 | 0.432 | 0.918 | 0.713 |
| 17.000 | 1389.000 | 136.468 | 0.937 | 0.471 | 0.982 |
| 18.000 | 896.000 | 116.326 | 0.832 | 0.563 | 0.947 |
| 19.000 | 1284.000 | 136.125 | 0.871 | 0.605 | 0.964 |
| 20.000 | 1905.000 | 162.610 | 0.905 | 0.626 | 0.981 |
| 21.000 | 650.000 | 105.841 | 0.729 | 0.821 | 0.890 |
| 22.000 | 1490.000 | 142.953 | 0.916 | 0.482 | 0.977 |
| 23.000 | 723.000 | 99.497 | 0.918 | 0.458 | 0.968 |
| 24.000 | 931.000 | 125.497 | 0.743 | 0.802 | 0.971 |
| 25.000 | 13709.000 | 532.174 | 0.608 | 0.907 | 0.889 |
| 26.000 | 1368.000 | 136.711 | 0.920 | 0.292 | 0.974 |
| 27.000 | 4774.000 | 284.593 | 0.741 | 0.827 | 0.972 |
| 28.000 | 6023.000 | 289.179 | 0.905 | 0.451 | 0.988 |
| 29.000 | 3240.000 | 246.208 | 0.672 | 0.886 | 0.905 |
| 30.000 | 9776.000 | 398.551 | 0.773 | 0.852 | 0.987 |
| 31.000 | 2359.000 | 188.853 | 0.831 | 0.804 | 0.970 |
| 32.000 | 3193.000 | 241.238 | 0.689 | 0.548 | 0.896 |
| 33.000 | 20483.000 | 575.512 | 0.777 | 0.682 | 0.956 |

| | | | | | |
|--------------------|-----------|---------|-------|-------|-------|
| 34.000 | 4896.000 | 381.304 | 0.423 | 0.921 | 0.705 |
| 35.000 | 2382.000 | 207.723 | 0.694 | 0.626 | 0.910 |
| 36.000 | 14504.000 | 473.730 | 0.812 | 0.648 | 0.963 |
| 37.000 | 3953.000 | 257.439 | 0.750 | 0.845 | 0.970 |
| 38.000 | 2048.000 | 181.439 | 0.782 | 0.838 | 0.970 |
| 39.000 | 831.000 | 111.326 | 0.843 | 0.711 | 0.963 |
| 40.000 | 413.000 | 75.598 | 0.908 | 0.640 | 0.960 |
| 41.000 | 14198.000 | 539.061 | 0.614 | 0.921 | 0.948 |
| 42.000 | 6955.000 | 348.978 | 0.718 | 0.859 | 0.957 |
| 43.000 | 9722.000 | 392.848 | 0.792 | 0.776 | 0.976 |
| 44.000 | 4107.000 | 281.279 | 0.652 | 0.847 | 0.932 |
| 45.000 | 1728.000 | 154.125 | 0.914 | 0.436 | 0.978 |
| 46.000 | 5732.000 | 315.309 | 0.725 | 0.684 | 0.940 |
| 47.000 | 2636.000 | 209.681 | 0.753 | 0.862 | 0.958 |
| 48.000 | 10274.000 | 393.362 | 0.834 | 0.537 | 0.965 |
| 49.000 | 8840.000 | 359.605 | 0.859 | 0.502 | 0.967 |
| 50.000 | 5920.000 | 312.877 | 0.760 | 0.844 | 0.974 |
| ... (34 more rows) | | | | | |